



- 1 -

# SEQUENCE LISTING

<110> The Scripps Research Institute  
Sutcliffe, et al.

## <120> Hypothalamus-Specific Polypeptides

<130> TSRI-548.1 Div. 1

<140> 09/735,138

<141> 2000-12-12

<150> 60/023,220

<151> 1996-08-02

<150> PCT/US97/13657

<151> 1997-08-01

<150> 09/230,896

<151> 1999-02-02

<160> 29

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 130

&lt;212&gt; PRT

<213> ratus ratus

<400> 1

[illegible]

<210> 2  
<211> 130  
<212> PRT  
<213> mus musculus

<400> 2  
Met Asn Phe Pro Ser Thr Lys Val Pro Trp Ala Ala Val Thr Leu Leu  
1 5 10 15  
Leu Leu Leu Leu Leu Pro Pro Ala Leu Leu Ser Leu Gly Val Asp Ala  
20 25 30  
Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr Cys Ser Cys Arg Leu  
35 40 45  
Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile Leu Thr  
50 55 60  
Leu Gly Lys Arg Arg Pro Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln  
65 70 75 80  
Arg Leu Leu Gln Ala Asn Gly Asn His Ala Ala Gly Ile Leu Thr Met  
85 90 95  
Gly Arg Arg Ala Gly Ala Glu Leu Glu Pro His Pro Cys Ser Gly Arg  
100 105 110  
Gly Cys Pro Thr Val Thr Thr Thr Ala Leu Ala Pro Arg Gly Gly Ser  
115 120 125  
Gly Val  
130

<210> 3  
<211> 569  
<212> DNA  
<213> ratus ratus

<400> 3  
taagacgacg gcctcagact ccttggttat ttggaccact gcaccgaaga taccatctct 60  
ccggaattacc tctccctgag ctccagacac catgaacctt ccttctacaa aggttccctg 120  
ggcgcgcgtg acgctgctgc tgctgctact gctgccgccg gcgctgctgt cgcttggggg 180  
ggacgcgcag cctctgcccg actgctgtcg ccagaagacg tgttctctgcc ggctctacga 240  
actgttgacac ggagctggca accacgccgc gggcatcctc actctgggaa agcggcgacc 300  
tggacccccca ggctccaag gacggctgca gcgcctcctt caggccaacg gtaaccacgc 360  
agctggcatc ctgaccatgg gccgcgcgc aggcgcagag ctagagccat atccctgccc 420  
tggtcgccgc tgtccgactg caaccgccac cgctttagcg ccccgggggc gatccagagt 480  
ctgaaccogt cttctatccc tgtcctagtc ctaactttcc cctctctctg ccagtcoccta 540  
ggcaataaag acgtttctct gttggtgtg 569

<210> 4  
<211> 582  
<212> DNA  
<213> mus musculus

<400> 4  
taagacgacg gcctcagact tcttggttat ttggaccact gcaactgaaga gatcatctct 60  
ccagattact ttccctgag ctccaggcac catgaacttt ccttctacaa aggttccctg 120  
ggcgcgcgtg acgctgctgc tgctgctact gctgccaccg gcgctgctgt cgcttggggg 180  
ggacgcacag cctctgcccg actgctgtcg ccagaagacg tgttctctgcc gtctctacga 240

```

actgttgcac ggagctggca accacgctgc gggatcctg actctgggaa agcggcgggc 300
tggaacctcca ggctccagg gacggctgca gcgcctcctt caggccaacg gtaaccacgc 360
agctggcatc ctgacctggt gccgccgcgc aggcgcagag ctagagccac atccctgctc 420
tggtcgcggc tgcccgaccg taactatcac cgcttttagca ccccggggag ggtccggagt 480
ttgaacccat cttctatcct tgcctgatc caaacttccc cctctgctcg ccgctgtcag 540
tctcttggtg aatggcaata aagacgtttc tctgttggtg tg 582

```

<210> 5  
 <211> 1458  
 <212> DNA  
 <213> ratus ratus

```

<400> 5
gctaggagac attgcggcgg cgggtggcggc gttggcagca gctgcagaca tgctgctgct 60
caagaaacag acggaggaca tcagcagtgt ctatgagatc cgggagaagc tgggctcggg 120
tgcccttctct gaggtgatgc tggcccagga aaggggctct gctcatcttg tggccctcaa 180
gtgcattccc aagaaagcac ttccggggcaa ggaggccctg gtggagaatg agatcgcagt 240
actccgcagg attagccacc ccaacattgt ggctctggag gacgtccacg agagcccttc 300
ccatctctac ttggccatgg agctggtaac aggtggtgaa ctgtttgacc gaatcatgga 360
gcggggctcc tacacagaga aggatgcgag ccaccttgta gggcaggctc ttggtgctgt 420
ctcctacctt catagcctgg gcctcgtgca ccgggacctc aagcctgaaa acctcctcta 480
tgccacacct tttgaggact ccaagatcat ggtctctgac tttggcctgt ccaaaattca 540
agctggcaac atgctaggca cagcctgtgg gaccccagga tatgtggccc cagagctcct 600
ggagcagaaa ccctacggga aggcctaga tgtgtgggcc ctgggtgtca tctcctacat 660
cctgctgtgt ggggtacccc cttctatga tgagagcgat cctgaactct tcagccagat 720
tctgagggcc agctacgagt ttgactctcc cttttgggat gacatctcag aatcagccaa 780
agaattcatt cggcaccttc tggaacgtga tccccagaag aggttcacct gccaacaggc 840
cttacagcat ctctggatct ctggggatgc agccttgga agggacatcc taggttctgt 900
cagtgcgcag atccagaaga attttgccag gacccactgg aagcgtgcat tcaatgccac 960
atcattccta cgtcacatcc gtaagctggg acagagccca gagggtgagg aggcctccag 1020
gcagggtatg acccgtcaca gccaccagg ccttgggact agccagtctc ccaagtgggtg 1080
acaaccaggt ggatgccaag gaaggccaag tggactgact cctagctttt ctttcctcca 1140
gcccttttga tctccttccc tgatccttgt ccccggact ggctctgttt ggaaagtcca 1200
agaccgtggg tgtgatgcat ggactgggg tatggggctt cccaagtatg tccccagcct 1260
ctgtcctttg ttgctgccac cctctatgga aactgaggag gtattcaaaa atggatttgg 1320
gggccatcct tctgcacct tgcacgcaca tatgcattgc gtggctgttc tgtgctttgc 1380
tgactgtggg tggctctgct tgtgtgttag cccttagtt cctcctcttt ccaaccaata 1440
aagacaaaca gaacaatg 1458

```

<210> 6  
 <211> 103  
 <212> PRT  
 <213> ratus ratus

```

<400> 6
Leu Gly Val Asp Ala Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr
  1             5             10             15
Cys Ser Cys Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala
      20             25             30
Ala Gly Ile Leu Thr Leu Gly Lys Arg Arg Pro Gly Pro Pro Gly Leu
      35             40             45
Gln Gly Arg Leu Gln Arg Leu Leu Gln Ala Asn Gly Asn His Ala Ala
      50             55             60

```

Gly Ile Leu Thr Met Gly Arg Arg Ala Gly Ala Glu Leu Glu Pro Tyr  
65 70 75 80  
Pro Cys Pro Gly Arg Arg Cys Pro Thr Ala Thr Ala Thr Ala Leu Ala  
85 90 95  
Pro Arg Gly Gly Ser Arg Val  
100

<210> 7  
<211> 39  
<212> PRT  
<213> ratus ratus

<400> 7  
Leu Gly Val Asp Ala Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr  
1 5 10 15  
Cys Ser Cys Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala  
20 25 30  
Ala Gly Ile Leu Thr Leu Gly  
35

<210> 8  
<211> 38  
<212> PRT  
<213> ratus ratus

<400> 8  
Leu Gly Val Asp Ala Gln Pro Leu Pro Asp Cys Cys Arg Gln Lys Thr  
1 5 10 15  
Cys Ser Cys Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala  
20 25 30  
Ala Gly Ile Leu Thr Leu  
35

<210> 9  
<211> 28  
<212> PRT  
<213> ratus ratus

<400> 9  
Pro Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln Ala  
1 5 10 15  
Asn Gly Asn His Ala Ala Gly Ile Leu Thr Met Gly  
20 25

<210> 10  
<211> 27  
<212> PRT  
<213> ratus ratus

<400> 10

Pro Gly Pro Pro Gly Leu Gln Gly Arg Leu Gln Arg Leu Leu Gln Ala  
1 5 10 15  
Asn Gly Asn His Ala Ala Gly Ile Leu Thr Met  
20 25

<210> 11

<211> 20

<212> PRT

<213> ratus ratus

<400> 11

Arg Leu Tyr Glu Leu Leu His Gly Ala Gly Asn His Ala Ala Gly Ile  
1 5 10 15  
Leu Thr Leu Gly  
20

<210> 12

<211> 20

<212> PRT

<213> ratus ratus

<400> 12

Arg Leu Gln Arg Leu Leu Gln Ala Asn Gly Asn His Ala Ala Gly Ile  
1 5 10 15  
Leu Thr Met Gly  
20

<210> 13

<211> 9

<212> PRT

<213> ratus ratus

<400> 13

Gly Asn His Ala Ala Gly Ile Leu Thr  
1 5

<210> 14

<211> 393

<212> DNA

<213> ratus ratus

<400> 14

atgaaccttc cttctacaaa ggttccttgg gccgccgtga cgctgctgct gctgctactg 60  
ctgccgccgg cgctgctgtc gcttgggggtg gacgcgcagc ctctgcccga ctgctgtcgc 120  
cagaagacgt gttcctgccc tctctacgaa ctgttgacag gagctggcaa ccacgccgcg 180  
ggcatcctca ctctgggaaa ggggcgacct ggacccccag gcctccaagg acggctgcag 240  
cgctccttc aggccaacgg taaccacgca gctggcatcc tgaccatggg ccgccgcgca 300  
ggcgcagagc tagagccata tccctgcctt ggtcgccgct gtccgactgc aaccgccacc 360

gcttttagcgc cccggggcgg atccagagtc tga

393

<210> 15

<211> 393

<212> DNA

<213> mus musculus

<400> 15

atgaactttc cttctacaaa ggttccttgg gccgccgtga cgtctgtgct gctgctactg 60  
ctgccaccgg cgtctgtgtc gcttgggggtg gacgcacagc ctctgcccga ctgctgtcgc 120  
cagaagacgt gttcctgccg tctctacgaa ctgttgcaag gagctggcaa ccacgtctgcg 180  
ggtatcctga ctctgggaaa gcggcggcct ggacctccag gcctccaggg acggctgcag 240  
cgctccttc aggccaaacg taaccacgca gctggcatcc tgaccatggg ccgccgcgca 300  
ggcgcagagc tagagccaca tccctgctct ggtcgcggct gtccgaccgt aactatcacc 360  
gcttttagcac cccgggggag gtccggagtt tga 393

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> tag sequence

<400> 16

aggccaagaa ttcggcacga

20

<210> 17

<211> 17

<212> DNA

<213> mus musculus

<400> 17

taagacgacg gcctcag

17

<210> 18

<211> 18

<212> DNA

<213> mus musculus

<400> 18

cacaccaaca gagaaacg

18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> tag sequence

<400> 19

aactggaaga attcgcgg

18

<210> 20  
<211> 14  
<212> PRT  
<213> mus musculus

<400> 20  
Arg Leu Leu Leu Gly Asn His Ala Ala Gly Ile Leu Thr Gly  
1 5 10

<210> 21  
<211> 36  
<212> PRT  
<213> ratus ratus

<400> 21  
His Ser Asp Gly Thr Phe Thr Ser Lys Leu Ser Arg Leu Arg Asp Ser  
1 5 10 15  
Ala Arg Leu Gln Arg Leu Leu Gln Gly Leu Val His Ser Asp Gly Thr  
20 25 30  
Phe Thr Ser Lys  
35

<210> 22  
<211> 41  
<212> DNA  
<213> ratus ratus

<400> 22  
atcgagatct agacaccatg aaccttcctt ctacaaaggt t 41

<210> 23  
<211> 68  
<212> DNA  
<213> ratus ratus

<400> 23  
actgtctaga tcatagatct tcttcagaaa taagtttttg ttcgactctg gatccgcccc 60  
ggggcgct 68

<210> 24  
<211> 31  
<212> DNA  
<213> ratus ratus

<400> 24  
atcgagatct cttgggggtgg acgcgcagcc t 31

<210> 25  
<211> 30  
<212> DNA

<213> ratus ratus

<400> 25

actgaattct cagactctgg atccgccccg

30

<210> 26

<211> 20

<212> DNA

<213> mus musculus

<400> 26

gacggcctca gacttcttgg

20

<210> 27

<211> 20

<212> DNA

<213> mus musculus

<400> 27

gcaacagttc gtagagacgg

20

<210> 28

<211> 17

<212> PRT

<213> ratus ratus

<400> 28

Cys Pro Thr Ala Thr Ala Thr Ala Cys Ala Pro Arg Gly Gly Ser Arg

1

5

10

15

Val

<210> 29

<211> 358

<212> PRT

<213> ratus ratus

<400> 29

Met Leu Leu Leu Lys Lys Gln Thr Glu Asp Ile Ser Ser Val Tyr Glu

1

5

10

15

Ile Arg Glu Lys Leu Gly Ser Gly Ala Phe Ser Glu Val Met Leu Ala

20

25

30

Gln Glu Arg Gly Ser Ala His Leu Val Ala Leu Lys Cys Ile Pro Lys

35

40

45

Lys Ala Leu Arg Gly Lys Glu Ala Leu Val Glu Asn Glu Ile Ala Val

50

55

60

Leu Arg Arg Ile Ser His Pro Asn Ile Val Ala Leu Glu Asp Val His

65

70

75

80

Glu Ser Pro Ser His Leu Tyr Leu Ala Met Glu Leu Val Thr Gly Gly

85

90

95

Glu Leu Phe Asp Arg Ile Met Glu Arg Gly Ser Tyr Thr Glu Lys Asp

100

105

110



Ala Ser His Leu Val Gly Gln Val Leu Gly Ala Val Ser Tyr Leu His  
115 120 125  
Ser Leu Gly Ile Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Tyr  
130 135 140  
Ala Thr Pro Phe Glu Asp Ser Lys Ile Met Val Ser Asp Phe Gly Leu  
145 150 155 160  
Ser Lys Ile Gln Ala Gly Asn Met Leu Gly Thr Ala Cys Gly Thr Pro  
165 170 175  
Gly Tyr Val Ala Pro Glu Leu Leu Glu Gln Lys Pro Tyr Gly Lys Ala  
180 185 190  
Val Asp Val Trp Ala Leu Gly Val Ile Ser Tyr Ile Leu Leu Cys Gly  
195 200 205  
Tyr Pro Pro Phe Tyr Asp Glu Ser Asp Pro Glu Leu Phe Ser Gln Ile  
210 215 220  
Leu Arg Ala Ser Tyr Glu Phe Asp Ser Pro Phe Trp Asp Asp Ile Ser  
225 230 235 240  
Glu Ser Ala Lys Asp Phe Ile Arg His Leu Leu Glu Arg Asp Pro Gln  
245 250 255  
Lys Arg Phe Thr Cys Gln Gln Ala Leu Gln His Leu Trp Ile Ser Gly  
260 265 270  
Asp Ala Ala Leu Asp Arg Asp Ile Leu Gly Ser Val Ser Glu Gln Ile  
275 280 285  
Gln Lys Asn Phe Ala Arg Thr His Trp Lys Arg Ala Phe Asn Ala Thr  
290 295 300  
Ser Phe Leu Arg His Ile Arg Lys Leu Gly Gln Ser Pro Glu Gly Glu  
305 310 315 320  
Glu Ala Ser Arg Gln Gly Met Thr Arg His Ser His Pro Gly Leu Gly  
325 330 335  
Thr Ser Gln Ser Pro Lys Trp Val Thr Thr Arg Trp Met Pro Arg Lys  
340 345 350  
Ala Lys Trp Thr Asp Ser  
355